

utility patent application serial no. 09/997,282, filed
November 29, 2001, and copending utility patent
application serial no. ~~09/997,282~~,^{10/023,481} entitled "Wireless
Local Area Network System with Mobile Access Point
5 Station Determination," filed December 17, 2001, the
disclosures which are hereby incorporated by reference
in their entirety.

In many of these types of systems, the amount
of signal interference continues to increase to the
10 point that some of the communication systems lose their
effectiveness. There are some techniques that mitigate
these effects, such as the use of spread spectrum and
antenna diversity, as disclosed in the above identified
patents and applications. In any event, if the
15 wireless and real time location networks increase in
number, the spread spectrum and diversity techniques
are not sufficiently effective.

In the wireless environment, such as a
wireless local area network and real time location
20 system, the environment is crowded with a number of
communication signals and other interfering signals
that occupy the same frequency bands or channels.
Also, the environment is typically contaminated by
multipath reflections from both the desired
25 communication signal emanating from a desired
transmitter, such as a mobile device, TAG, or mobile
access point, and interfering signals emanating from
interfering sources, such as other networks and
antennae. Reflections can occur by wave reflecting
30 services, including walls, buildings, other antenna,
natural earth landmarks and other reflecting sources
known to those skilled in the art.

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